

**REC'D** 

AUG 3 0 2010 APCO

August 27, 2010

Mr. Jon Knodel USEPA Region VII Mail Code: AWMD/APCO 901 N 5<sup>th</sup> Street Kansas City, KS 66101

Re: Westar Energy Consent Decree (Civ. Action No. 09-CV-2059)

Semi-annual Progress Report

Dear Mr. Knodel:

Attached hereto for your review is the Periodic Progress Report of Westar Energy, Inc. This report is submitted in compliance with Paragraph 113 of the Consent Decree in the above matter.

This Periodic Progress Report covers the period beginning March 26, 2010 (entry date of the Consent Decree) through June 30, 2010. This Periodic Progress Report has been certified by Westar Energy Inc.'s Designated Representative, John Bridson, who is the Responsible Official under the Title V Program for our Acid Rain Program Affected Sources.

Should you have any question regarding this Progress Report, please do not hesitate to contact me at 787-575-1614 or e-mail me at Dan.R.Wilkus@westarenergy.com.

Sincerely,

WESTAR ENERGY, INC.

Daniel R. Wilkus, P.E. Director, Air Programs

cc: Chief, Environmental Enforcement Section Environment and Natural Resources Division U.S. Department of Justice P. O. Box 7611, Ben Franklin Station 601 D Street Washington, D.C. 20044-7611 DJ# 90-5-2-1-08242

Director, Air Enforcement Division
Office of Enforcement and Compliance Assurance
U.S. Environmental Protection Agency
Ariel Rios Building [2242A]
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

Regional Administrator
U.S. EPA Region VII
901 North 5<sup>th</sup> Street
Kansas City, Kansas 66101

Section Chief, Compliance and Enforcement Section Bureau of Air and Radiation Kansas Department of Health and Environment 1000 SW Jackson, Suite 310 Topeka, Kansas 66612-1366

#### PERIODIC REPORT OF WESTAR ENERGY, INC.

PURSUANT TO PART XI OF THE CONSENT DECREE ENTERED IN CIVIL ACTION NO. 09-CV-2059 FOR THE PERIOD MARCH 26, 2010 THROUGH JUNE 30, 2010

Westar Energy, Inc. ("Westar") submits this Progress Report pursuant to Section XI of the Consent Decree entered in *United States of America and State of Kansas v. Westar Energy, Inc.*, Civil Action Number 09-CV-2059. This Progress Report covers the period beginning March 26, 2010 (entry date of the Consent Decree) through June 30, 2010 (the "Report Period").

In accordance with Paragraph 113, Westar must provide the following information in this Periodic Report.

- a. All information necessary to determine compliance with the requirements of the following paragraphs of the Consent Decree: Paragraphs 50 through 68 concerning NO<sub>x</sub> emissions monitoring, and the surrender of NO<sub>x</sub> Allowances; Paragraphs 69 through 81 concerning SO<sub>2</sub> emissions and monitoring, and the surrender of SO<sub>2</sub> Allowances; and Paragraphs 82 through 87 concerning PM emissions and monitoring. Westar shall include in these reports all data for which the bias adjustment factor has been excluded pursuant to Paragraphs 67 and 80;
- All data recorded by the PM CEMS as required by Paragraph 91, and all period of monitor Malfunction, maintenance, and/or repair as provided in Paragraph 88;
- c. All information relating to Super-Compliance NO<sub>x</sub> and SO<sub>2</sub> Allowances that have been generated in accordance with Paragraphs 64 and 76 through compliance beyond the requirements of the Consent Decree;
- d. All information indicating that the installation and commencement of operation for a pollution control device may be delayed, including the nature and cause of the delay, and any steps taken by Westar to mitigate such delay; and
- e. All information relating to the NO<sub>x</sub> Offset Requirements pursuant to Paragraph 121.
- I. Compliance status with Paragraphs 50 through 68 NO<sub>x</sub> Emissions and Monitoring, and Surrender of NOx Allowances.
  - a. Paragraph 50 On June 24, 2010, Westar timely completed and implemented a plan to optimize NO<sub>x</sub> emission reductions from the existing Low NO<sub>x</sub> Combustion Systems on JEC Units 1 and 3. Optimization will begin during Fall 2010 with the installation of automation equipment on Unit 3 to prepare the Unit for a future neural network installation. Neural network systems will be installed on JEC Unit 1 in 2012 and JEC Unit 3 in 2013. A neural network is boiler control system that has the ability to reduce NO<sub>x</sub> emissions.

- b. Paragraph 51 Westar is preparing to install a Low NO<sub>x</sub> Combustion System on JEC Unit 2 during an upcoming, Spring 2011 maintenance outage and is on schedule for this installation
- c. Paragraph 52 Westar continuously operated the existing Low  $NO_x$  Combustion Systems on JEC Units 1 and 3 at all times the Units were online during the Report Period.
- d. Paragraph 53-54 Westar is on schedule to install and commence continuous operation of an SCR on one of the JEC Units no later than December 31, 2014.
- e. Paragraph 55 On June 24, 2010, Westar engaged Sega, Inc., an engineering firm located in Overland Park, KS, to assist Westar in testing, evaluating, and analyzing other  $NO_x$  reduction technologies for JEC, including SNCR. This evaluation was ongoing during the Report Period. Westar anticipates continued evaluation of alternate technologies in Fall 2010 and in 2011.
- f. Paragraphs 56, 57, 58, 59, 61, 62, 63, 64, 65, 66, 67 and 68 These paragraphs contain future compliance requirements beyond the Report Period. No compliance related information is available and necessary to report at this time.
- g. Paragraph 60 Westar was in compliance with the use of NO<sub>x</sub> Allowances requirements in Paragraph 60 during the Report Period.
- II. Compliance status with Paragraphs 69 through 81 − SO<sub>2</sub> Emission and Monitoring, and Surrender of SO<sub>2</sub> Allowances.
  - a. Paragraph 69 USEPA Region VII and the Kansas Department of Health and Environment agreed during Westar's initial kick-off meeting that the compliance date for the Plant-Wide 12-month rolling tonnage limitation for SO<sub>2</sub> could begin on the first of the calendar month in order to allow for the monthly calculation. Therefore, Westar will first demonstrate compliance on June 1, 2011.

Westar began monitoring and recordkeeping for the Plant-Wide 12-month rolling tonnage limitation for SO<sub>2</sub> on June 1, 2010. Westar began timely complying with the Plant-Wide 12-month rolling tonnage limitation for SO<sub>2</sub> on June 24, 2010 (Ninety days after Consent Decree entry). Westar anticipates being in compliance with the Plant-Wide 12-month rolling tonnage limitation on June 24, 2011, twelve months after the date of commencement of the limitation pursuant to paragraph 177.

- b. Paragraph 70 Westar began continuously operating FGDs on all three Units on June 24, 2010, ninety days after entry of the Consent Decree. On May 25, 2010, Westar began SO<sub>2</sub> monitoring and recordkeeping in order to develop the 30-Day Rolling Average Unit Emission Rate for Units 1, 2 and 3. On June 24, 2010, Westar began maintaining a SO<sub>2</sub> 30-day Rolling Average Emission Rate for each Unit of no greater than 0.070 lb/mmBtu. Attachment A contains the SO<sub>2</sub> 30-Day Rolling Average Unit Emission Rate for Units 1, 2 and 3 from June 24, 2010 through June 30, 2010.
- c. Paragraph 71 On June 24, 2010, ninety days after entry of the Consent Decree, Westar began operating each FGD at all times in which the Unit was operating, consistent with the technological limitations, manufacturers' specifications, and good engineering and maintenance practices for the FGDs to minimize emissions to the extent practicable.
- d. Paragraph 72 Westar was in compliance with the use of SO<sub>2</sub> Allowances requirements in Paragraph 72 during the Report Period.
- e. Paragraph 80 On May 25, 2010, Westar began using SO<sub>2</sub> continuous emission monitors (CEMs) in accordance with Paragraph 80 in order to calculate the SO<sub>2</sub> 30-Day Rolling Average Unit Emission Rate for each Unit. Attachment B contains all hourly SO<sub>2</sub> data for which the bias adjustment factor has been excluded.
- f. Paragraph 81 On June 1, 2010, Westar began using CEMs in accordance with Paragraph 81 to calculate the Plant-Wide 12-Month Rolling Tonnage limitation for SO2.
- g. Paragraphs 73, 74, 75, 76, 77, 78 and 79 These Paragraphs contain future compliance requirements outside of the Report Period. No compliance related information is available and necessary to report at this time.

# III. Compliance Status with Paragraphs 82 through 87 - PM Emission and Monitoring.

a. Paragraph 82 - On April 25, 2010, Westar began operating each ESP and FGD system on each JEC Unit to maximize the PM emission reductions at all times when the Units were in operation. Westar maintains power levels to each ESP section and operates automatic control system on each ESP to assure that the plate-cleaning and discharge-electrode-cleaning systems and associated performance parameters, including cycle time, cycle frequency, rapper-vibrator intensity, and number of strikes per cleaning event, maximize the overall PM collection efficiency. Westar also conducted inspections and repairs during a Unit 3 outage.

- b. Paragraphs 83, 85, 86 and 87 These Paragraphs contain future compliance requirements outside of the Report Period. No compliance related information is available and necessary to report at this time.
- c. Paragraph 84 In addition to continuously operating the ESPs and FGD system at each JEC Unit, Westar operated the Units to achieve a PM emission rate of no greater than 0.030 lb/mmBTU, which will be demonstrated by stack testing required in future Report periods.
- IV. Compliance Status with Paragraphs 88 and 91 all data recorded by PM CEMs, and all periods of monitor malfunction, maintenance and/or repair.
  - a. Paragraphs 88 and 91 These Paragraphs contain future compliance requirements outside of the Report Period. No compliance related information is available and necessary to report at this time.
- V. All information related to Super-Compliant NO<sub>x</sub> and SO<sub>2</sub> Allowances that Westar claims to have generated in accordance with Paragraphs 64 and 76.
  - a. Paragraphs 64 and 76 These Paragraphs contain future compliance requirements outside of the Report Period. No compliance related information is available and necessary to report at this time.
- VI. All information indicating that the installation and commencement of operation for a pollution control device may be delayed.

During this Report Period, there were no indications of any delays of the installation or operation of any pollution control devices required by this Consent Decree.

VII. All information relating to the  $NO_x$  Offset Requirements pursuant to Paragraph 121.

These Paragraphs contain future compliance requirements outside of the Report Period. No compliance related information is available and necessary to report at this time.

This information was prepared either by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my evaluation, or the direction and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, I hereby certify under penalty of law that, to the best of my knowledge and belief, this information is true, accurate, and complete. I understand that there are significant penalties for submitting false, inaccurate, or incomplete information to the United States.

John Bridson

Executive Director, Generation

### Attachment A SO2 30-Day Rolling Average Unit Emission Rate

June 24, 2010 through June 30, 2010

Date	BOILER01 SO2#/M30 Value
06/24/2010	0.0197
06/25/2010	0.0204
06/26/2010	0.0211
06/27/2010	0.0213
06/28/2010	0.0229
06/29/2010	0.0232
06/30/2010	0.0234

Date	BOILER02 SO2#/M30 Value
06/24/2010	0.0092
06/25/2010	0.0097
06/26/2010	0.0100
06/27/2010	0.0103
06/28/2010	0.0105
06/29/2010	0.0109
06/30/2010	0.0112

Date	BOILER03 SO2#/M30 Value
06/24/2010	0.0091
06/25/2010	0.0100
06/26/2010	0.0101
06/27/2010	0.0106
06/28/2010	0.0110
06/29/2010	0.0114
06/30/2010	0.0116

#### Attachment B SO2 Data With Excluded Bias Adjustment Factor

May 25, 2010 through June 30, 2010

## Unit 1

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Date/Hour	BOILER01 SO2#/M30 Value
05/25/2010 00	0.0158
05/25/2010 01	0.0186
05/25/2010 02	0.0177
05/25/2010 03	0.0165
05/25/2010 04	0.0129
05/25/2010 05	0.0060
05/25/2010 06	0.0204
05/25/2010 07	0.0089
05/25/2010 08	0.0076
05/25/2010 09	0.0073
05/25/2010 10	0.0066
05/25/2010 11	0.0061
05/25/2010 12	0.0063
05/25/2010 <b>1</b> 3	0.0063
05/25/2010 14	0.0066
05/25/2010 15	0.0065
05/25/2010 16	0.0062
05/25/2010 17	0.0127
05/25/2010 18	0.0133
05/25/2010 19	0.0144
05/25/2010 20	0.0137
05/25/2010 21	0.0144
05/25/2010 22	0.0138
05/25/2010 23	0.0138
05/26/2010 00	0.0114
05/26/2010 01	0.0077
05/26/2010 02	0.0080
05/26/2010 03	0.0087
05/26/2010 04	0.0097
05/26/2010 05	0.0060

05/27/2010 13	0.0242
05/27/2010 14	0.0219
05/27/2010 15	0.0243
05/27/2010 16	0.0209
05/27/2010 17	0.0206
05/27/2010 18	0.0170
05/27/2010 19	0.0178
05/27/2010 20	0.0181
05/27/2010 21	0.0170
05/27/2010 22	0.0158
05/27/2010 23	0.0138
05/28/2010 00	0.0118
05/28/2010 01	0.0106
05/28/2010 02	0.0098
05/28/2010 03	0.0091
05/28/2010 04	0.0100
05/28/2010 05	0.0136
05/28/2010 06	0.0319
05/28/2010 07	0.0211
05/28/2010 08	0.0204
05/28/2010 09	0.0195
05/28/2010 10	0.0182
05/28/2010 11	0.0191
05/28/2010 12	0.0191
05/28/2010 13	0.0198
05/28/2010 14	0.0186
05/28/2010 15	0.0183
05/28/2010 16	0.0181
05/28/2010 17	0.0165
05/28/2010 18	0.0158
05/28/2010 19	0.0161

05/30/2010 03	0.0094
05/30/2010 04	0.0088
05/30/2010 05	0.0088
05/30/2010 06	0.0239
05/30/2010 07	0.0165
05/30/2010 08	0.0209
05/30/2010 09	0.0199
05/30/2010 10	0.0191
05/30/2010 11	0.0181
05/30/2010 12	0.0181
05/30/2010 13	0.0170
05/30/2010 14	0.0162
05/30/2010 15	0.0056
05/30/2010 16	
05/30/2010 17	
05/30/2010 18	
05/30/2010 19	
05/30/2010 20	
05/30/2010 21	
05/30/2010 22	
05/30/2010 23	
05/31/2010 00	
05/31/2010 01	
05/31/2010 02	
05/31/2010 03	
05/31/2010 04	
05/31/2010 05	
05/31/2010 06	
05/31/2010 07	
05/31/2010 08	

05/31/2010 09

06/01/2010 17	0.0181
06/01/2010 18	0.0187
06/01/2010 19	0.0189
06/01/2010 20	0.0184
06/01/2010 21	0.0184
06/01/2010 22	0.0181
06/01/2010 23	0.0195
06/02/2010 00	0.0188
06/02/2010 01	0.0196
06/02/2010 02	0.0170
06/02/2010 03	0.0133
06/02/2010 04	0.0153
06/02/2010 05	0.0183
06/02/2010 06	0.0285
06/02/2010 07	0.0225
06/02/2010 08	0.0210
06/02/2010 09	0.0207
06/02/2010 10	0.0190
06/02/2010 11	0.0182
06/02/2010 12	0.0195
06/02/2010 13	0.0207
06/02/2010 14	0.0227
06/02/2010 15	0.0221
06/02/2010 16	0.0218
06/02/2010 17	0.0218
06/02/2010 18	0.0216
06/02/2010 19	0.0218
06/02/2010 20	0.0228
06/02/2010 21	0.0198
06/02/2010 22	0.0179
06/02/2010 23	0.0176

06/04/2010 07	
06/04/2010 08	
06/04/2010 09	
06/04/2010 10	
06/04/2010 11	0.0182
06/04/2010 12	0.0187
06/04/2010 13	0.0188
06/04/2010 14	0.0187
06/04/2010 15	0.0184
06/04/2010 16	0.0187
06/04/2010 17	0.0162
06/04/2010 18	0.0136
06/04/2010 19	0.0137
06/04/2010 20	0.0141
06/04/2010 21	0.0126
06/04/2010 22	0.0117
06/04/2010 23	0.0117
06/05/2010 00	0.0111
06/05/2010 01	0.0110
06/05/2010 02	0.0095
06/05/2010 03	0.0086
06/05/2010 04	0.0077
06/05/2010 05	0.0077
06/05/2010 06	0.0193
06/05/2010 07	0.0137
06/05/2010 08	0.0170
06/05/2010 09	0.0171
06/05/2010 10	0.0161
06/05/2010 11	0.0158
06/05/2010 12	0.0162
06/05/2010 13	0.0159

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06/06/2010 21	0.0242
06/06/2010 22	0.0239
06/06/2010 23	0.0222
06/07/2010 00	0.0212
06/07/2010 01	0.0180
06/07/2010 02	0.0132
06/07/2010 03	0.0127
06/07/2010 04	0.0120
06/07/2010 05	0.0134
06/07/2010 06	0.0321
06/07/2010 07	0.0252
06/07/2010 08	0.0237
06/07/2010 09	0.0218
06/07/2010 10	0.0215
06/07/2010 11	0.0218
06/07/2010 12	0.0215
06/07/2010 13	0.0233
06/07/2010 14	0.0246
06/07/2010 15	0.0233
06/07/2010 16	0.0222
06/07/2010 17	0.0212
06/07/2010 18	0.0212
06/07/2010 19	0.0222
06/07/2010 20	0.0228
06/07/2010 21	0.0217
06/07/2010 22	0.0205
06/07/2010 23	0.0178
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06/18/2010 03	0.0114
06/18/2010 04	0.0123
06/18/2010 05	0.0132
06/18/2010 06	0.0208
06/18/2010 07	0.0182
06/18/2010 08	0.0284
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06/26/2010 00	0.0278
06/26/2010 01	0.0278
06/26/2010 02	0.0248
06/26/2010 03	0.0237
06/26/2010 04	0.0223
06/26/2010 05	0.0217

06/27/2010 13	0.0268
06/27/2010 14	0.0270
06/27/2010 15	0.0275
06/27/2010 16	0.0268
06/27/2010 17	0.0240
06/27/2010 18	0.0235
06/27/2010 19	0.0232
06/27/2010 20	0.0227
06/27/2010 21	0.0220
06/27/2010 22	0.0238
06/27/2010 23	0.0235
06/28/2010 00	0.0210
06/28/2010 01	0.0198
06/28/2010 02	0.0179
06/28/2010 03	0.0185
06/28/2010 04	0.0239
06/28/2010 05	0.0260
06/28/2010 06	0.0626
06/28/2010 07	0.0722
06/28/2010 08	0.0727
06/28/2010 09	0.0747
06/28/2010 10	0.0735
06/28/2010 11	0.0709
06/28/2010 12	0.0586
06/28/2010 13	0.0765
06/28/2010 14	0.0732
06/28/2010 15	0.0765
06/28/2010 16	0.0770
06/28/2010 17	0.0825
06/28/2010 18	0.0797
06/28/2010 19	0.0761

.

06/30/2010 03	0.0154
06/30/2010 04	0.0154
06/30/2010 05	0.0177
06/30/2010 06	0.0340
06/30/2010 07	0.0308
06/30/2010 08	0.0264
06/30/2010 09	0.0238
06/30/2010 10	0.0240
06/30/2010 11	0.0248
06/30/2010 12	0.0241
06/30/2010 13	0.0238
06/30/2010 14	0.0266
06/30/2010 15	0.0285
06/30/2010 16	0.0295
06/30/2010 17	0.0279
06/30/2010 18	0.0279
06/30/2010 19	0.0290
06/30/2010 20	0.0292
06/30/2010 21	0.0257
06/30/2010 22	0.0148
06/30/2010 23	0.0115

Date/Hour	BOILER02 SO2#/M30 Value
05/25/2010 00	0.0010
05/25/2010 01	0.0010
05/25/2010 02	0.0010
05/25/2010 03	0.0010
05/25/2010 04	0.0010
05/25/2010 05	0.0102
05/25/2010 06	0.0070
05/25/2010 07	0.0072
05/25/2010 08	0.0070
05/25/2010 09	0.0062
05/25/2010 10	0.0055
05/25/2010 11	0.0043
05/25/2010 12	0.0041
05/25/2010 13	0.0041
05/25/2010 14	0.0047
05/25/2010 15	0.0038
05/25/2010 16	0.0038
05/25/2010 17	0.0039
05/25/2010 18	0.0035
05/25/2010 19	0.0033
05/25/2010 20	0.0033
05/25/2010 21	0.0035
05/25/2010 22	0.0039
05/25/2010 23	0.0027
05/26/2010 00	0.0017
05/26/2010 01	0.0014
05/26/2010 02	0.0010
05/26/2010 03	0.0010
05/26/2010 04	0.0010
05/26/2010 05	0.0114

05/26/2010 06	0.0057
05/26/2010 07	0.0078
05/26/2010 08	0.0068
05/26/2010 09	0.0063
05/26/2010 10	0.0061
05/26/2010 11	0.0061
05/26/2010 12	0.0061
05/26/2010 13	0.0056
05/26/2010 14	0.0047
05/26/2010 15	0.0047
05/26/2010 16	0.0047
05/26/2010 17	0.0041
05/26/2010 18	0.0036
05/26/2010 19	0.0033
05/26/2010 20	0.0030
05/26/2010 21	0.0027
05/26/2010 22	0.0027
05/26/2010 23	0.0021
05/27/2010 00	0.0006
05/27/2010 01	
05/27/2010 02	
05/27/2010 03	
05/27/2010 04	
05/27/2010 05	0.0000
05/27/2010 06	0.0000
05/27/2010 07	0.0890
05/27/2010 08	0.0610
05/27/2010 09	0.0062
05/27/2010 10	0.0085
05/27/2010 11	0.0053
05/27/2010 12	0.0058

05/28/2010 20	0.0033	
05/28/2010 21	0.0033	
05/28/2010 22	0.0031	
05/28/2010 23	0.0019	
05/29/2010 00	0.0014	
05/29/2010 01	0.0014	
05/29/2010 02	0.0014	
05/29/2010 03	0.0014	
05/29/2010 04	0.0014	
05/29/2010 05	0.0125	
05/29/2010 06	0.0051	
05/29/2010 07	0.0042	
05/29/2010 08	0.0041	
05/29/2010 09	0.0039	
05/29/2010 10	0.0049	
05/29/2010 11	0.0051	
05/29/2010 12	0.0051	
05/29/2010 13	0.0045	
05/29/2010 14	0.0045	
05/29/2010 15	0.0040	
05/29/2010 16	0.0037	• •
05/29/2010 17	0.0034	
05/29/2010 18	0.0034	
05/29/2010 19	0.0034	
05/29/2010 20	0.0034	
05/29/2010 21	0.0039	
05/29/2010 22	0.0022	
05/29/2010 23	0.0014	
05/30/2010 00	0.0014	
05/30/2010 01	0.0014	
05/30/2010 02	0.0021	

05/31/2010 11 05/31/2010 12 05/31/2010 13 05/31/2010 14 05/31/2010 15 05/31/2010 16 05/31/2010 17	0.0061 0.0055 0.0053 0.0050 0.0048 0.0045 0.0042
05/31/2010 12 05/31/2010 13 05/31/2010 14 05/31/2010 15 05/31/2010 16 05/31/2010 17	0.0053 0.0053 0.0050 0.0048 0.0045 0.0042
05/31/2010 13 05/31/2010 14 05/31/2010 15 05/31/2010 16 05/31/2010 17	0.0053 0.0050 0.0048 0.0045 0.0042
05/31/2010 14 05/31/2010 15 05/31/2010 16 05/31/2010 17 05/31/2010 18	0.0050 0.0048 0.0045 0.0042
05/31/2010 15 05/31/2010 16 05/31/2010 17 05/31/2010 18	0.0048 0.0045 0.0042
05/31/2010 16 05/31/2010 17 05/31/2010 18	0.0045 0.0042
05/31/2010 17 05/31/2010 18	0.0042
05/31/2010 18	
	0.0039
05/31/2010 19	
	0.0042
05/31/2010 20	0.0036
05/31/2010 21	0.0036
05/31/2010 22	0.0035
05/31/2010 23	0.0022
06/01/2010 00	0.0020
06/01/2010 01	0.0017
06/01/2010 02	0.0017
06/01/2010 03	0.0017
06/01/2010 04	0.0017
06/01/2010 05	0.0132
06/01/2010 06	0.0066
06/01/2010 07	0.0088
06/01/2010 08	0.0089
06/01/2010 09	0.0086
06/01/2010 10	0.0083
06/01/2010 11	0.0078
06/01/2010 12	0.0069
06/01/2010 13	0.0057
06/01/2010 14	0.0078
06/01/2010 15	0.0072
06/01/2010 16	0.0062

06/03/2010 00	0.0064
. 06/03/2010 01	0.0050
06/03/2010 02	0.0044
06/03/2010 03	0.0045
06/03/2010 04	0.0044
06/03/2010 05	0.0041
06/03/2010 06	0.0173
06/03/2010 07	0.0091
06/03/2010 08	0.0127
06/03/2010 09	0.0135
06/03/2010 10	0.0124
06/03/2010 11	0.0092
06/03/2010 12	0.0094
06/03/2010 13	0.0161
06/03/2010 14	0.0197
06/03/2010 15	0.0225
06/03/2010 16	0.0223
06/03/2010 17	0.0253
06/03/2010 18	0.0261
06/03/2010 19	0.0275
06/03/2010 20	0.0292
06/03/2010 21	0.0292
06/03/2010 22	0.0163
06/03/2010 23	0.0071
06/04/2010 00	0.0066
06/04/2010 01	0.0051
06/04/2010 02	0.0049
06/04/2010 03	0.0027
06/04/2010 04	0.0020
06/04/2010 05	0.0020
06/04/2010 06	0.0126

06/05/2010 14	0.0072
06/05/2010 15	0.0069
06/05/2010 16	0.0067
06/05/2010 17	0.0067
06/05/2010 18	0.0067
06/05/2010 19	0.0058
06/05/2010 20	0.0064
06/05/2010 21	0.0061
06/05/2010 22	0.0056
06/05/2010 23	0.0033
06/06/2010 00	0.0023
06/06/2010 01	0.0023
06/06/2010 02	0,0023
06/06/2010 03	0.0023
06/06/2010 04	0.0023
06/06/2010 05	0.0020
06/06/2010 06	0.0124
06/06/2010 07	0.0086
06/06/2010 08	0.0068
06/06/2010 09	0.0089
06/06/2010 10	0.0091
06/06/2010 11	0.0093
06/06/2010 12	0.0102
06/06/2010 13	0.0121
06/06/2010 14	0.0113
06/06/2010 15	0.0104
06/06/2010 16	0.0090
06/06/2010 17	0.0085
06/06/2010 18	0.0087
06/06/2010 19	0.0085
06/06/2010 20	0.0080

06/08/2010 04	0.0056
06/08/2010 05	0.0055
06/08/2010 06	0.0211
06/08/2010 07	0.0206
06/08/2010 08	0.0168
06/08/2010 09	0.0149
06/08/2010 10	0.0160
06/08/2010 11	0.0125
06/08/2010 12	
06/08/2010 13	
06/08/2010 14	0.0370
06/08/2010 15	0.0209
06/08/2010 16	0.0166
06/08/2010 17	0.0145
06/08/2010 18	0.0175
06/08/2010 19	0.0194
06/08/2010 20	0.0196
06/08/2010 21	0.0205
06/08/2010 22	0.0213
06/08/2010 23	0.0194
06/09/2010 00	0.0153
06/09/2010 01	0.0073
06/09/2010 02	0.0063
06/09/2010 03	0.0059
06/09/2010 04	0.0064
06/09/2010 05	0.0070
06/09/2010 06	0.0227
06/09/2010 07	0.0166
06/09/2010 08	0.0181
06/09/2010 09	0.0176
06/09/2010 10	0.0165

06/10/2010 18	0.0083
06/10/2010 19	0.0080
06/10/2010 20	0.0064
06/10/2010 21	0.0056
06/10/2010 22	0.0050
06/10/2010 23	0.0048
06/11/2010 00	0.0042
06/11/2010 01	0.0031
06/11/2010 02	0.0031
06/11/2010 03	0.0030
06/11/2010 04	0.0030
06/11/2010 05	0.0027
06/11/2010 06	0.0133
06/11/2010 07	0.0098
06/11/2010 08	0.0117
06/11/2010 09	0.0107
06/11/2010 10	0.0105
06/11/2010 11	0.0114
06/11/2010 12	0.0107
06/11/2010 13	0.0100
06/11/2010 14	0.0103
06/11/2010 15	0.0106
06/11/2010 16	0.0095
06/11/2010 17	0.0081
06/11/2010 18	0.0068
06/11/2010 19	0.0068
06/11/2010 20	0.0065
06/11/2010 21	0.0071
06/11/2010 22	0.0069
06/11/2010 23	0.0075
06/12/2010 00	0.0075

06/13/2010 08	0.0175
06/13/2010 09	0.0162
06/13/2010 10	0.0136
06/13/2010 11	0.0129
06/13/2010 12	0.0119
06/13/2010 13	0.0098
06/13/2010 14	0.0109
06/13/2010 15	0.0096
06/13/2010 16	0.0085
06/13/2010 17	0.0085
06/13/2010 18	0.0083
06/13/2010 19	0.0079
06/13/2010 20	0.0079
06/13/2010 21	0.0080
06/13/2010 22	0.0069
06/13/2010 23	0.0065
06/14/2010 00	0.0058
06/14/2010 01	0.0055
06/14/2010 02	0.0055
06/14/2010 03	0.0051
06/14/2010 04	0.0051
06/14/2010 05	0.0054
06/14/2010 06	0.0182
06/14/2010 07	0.0123
06/14/2010 08	0.0151
06/14/2010 09	0.0132
06/14/2010 10	0.0117
06/14/2010 11	0.0103
06/14/2010 12	0.0096
06/14/2010 13	0.0090
06/14/2010 14	0.0100

06/15/2010 22	0.0127
06/15/2010 23	0.0133
06/16/2010 00	0.0124
06/16/2010 01	0.0102
06/16/2010 02	0.0071
06/16/2010 03	0.0066
06/16/2010 04	0.0062
06/16/2010 05	0.0058
06/16/2010 06	0.0228
06/16/2010 07	0.0262
06/16/2010 08	0.0215
06/16/2010 09	0.0203
06/16/2010 10	0.0188
06/16/2010 11	0.0168
06/16/2010 12	0.0157
06/16/2010 13	0.0143
06/16/2010 14	0.0143
06/16/2010 15	0.0139
06/16/2010 16	0.0137
06/16/2010 17	0.0126
06/16/2010 18	0.0083
06/16/2010 19	0.0068
06/16/2010 20	0.0065
06/16/2010 21	0.0063
06/16/2010 22	0.0068
06/16/2010 23	0.0075
06/17/2010 00	0.0055
06/17/2010 01	0,0053
06/17/2010 02	0.0056
06/17/2010 03	0.0058
06/17/2010 04	0.0062

06/18/2010 12	0.0112
06/18/2010 13	0.0118
06/18/2010 14	0.0121
06/18/2010 15	0.0120
06/18/2010 16	0.0118
06/18/2010 17	0.0128
06/18/2010 18	0.0121
06/18/2010 19	0.0115
06/18/2010 20	0.0102
06/18/2010 21	0.0096
06/18/2010 22	0.0096
06/18/2010 23	0.0096
06/19/2010 00	0.0085
06/19/2010 01	0.0064
06/19/2010 02	0.0053
06/19/2010 03	0.0054
06/19/2010 04	0.0053
06/19/2010 05	0.0049
06/19/2010 06	0.0168
06/19/2010 07	0.0117
06/19/2010 08	0.0175
06/19/2010 09	0.0171
06/19/2010 10	0.0189
06/19/2010 11	0.0168
06/19/2010 12	0.0137
06/19/2010 13	0.0134
06/19/2010 14	0.0127
06/19/2010 15	0.0119
06/19/2010 16	0.0119
06/19/2010 17	0.0122
06/19/2010 18	0.0130

06/21/2010 02	0.0058
06/21/2010 03	0.0058
06/21/2010 04	0.0058
06/21/2010 05	0.0056
06/21/2010 06	0.0218
06/21/2010 07	0.0199
06/21/2010 08	0.0172
06/21/2010 09	0.0164
06/21/2010 10	0.0163
06/21/2010 11	0.0158
06/21/2010 12	0.0153
06/21/2010 13	0.0143
06/21/2010 14	0.0135
06/21/2010 15	0.0065
06/21/2010 16	
06/21/2010 17	
06/21/2010 18	
06/21/2010 19	
06/21/2010 20	
06/21/2010 21	
06/21/2010 22	
06/21/2010 23	
06/22/2010 00	
06/22/2010 01	
06/22/2010 02	
06/22/2010 03	
06/22/2010 04	
06/22/2010 05	
06/22/2010 06	
06/22/2010 07	

06/22/2010 08

06/23/2010 16	
06/23/2010 17	
06/23/2010 18	
06/23/2010 19	
06/23/2010 20	
06/23/2010 21	
06/23/2010 22	
06/23/2010 23	
06/24/2010 00	
06/24/2010 01	
06/24/2010 02	
06/24/2010 03	
06/24/2010 04	
06/24/2010 05	
06/24/2010 06	
06/24/2010 07	
06/24/2010 08	
06/24/2010 09	
06/24/2010 10	
06/24/2010 11	
06/24/2010 12	
06/24/2010 13	0.0000
06/24/2010 14	0.0751
06/24/2010 15	0.0092
06/24/2010 16	0.0032
06/24/2010 17	0.0028
06/24/2010 18	0.0011
06/24/2010 19	0.0000
06/24/2010 20	0.0000
06/24/2010 21	0.0000
06/24/2010 22	0.0006

06/26/2010 06	0.0182
06/26/2010 07	0.0185
06/26/2010 08	0.0197
06/26/2010 09	0.0165
06/26/2010 10	0.0151
06/26/2010 11	0.0147
06/26/2010 12	0.0136
06/26/2010 13	0.0131
06/26/2010 14	0.0119
06/26/2010 15	0.0107
06/26/2010 16	0.0099
06/26/2010 17	0.0093
06/26/2010 18	0.0093
06/26/2010 19	0.0098
06/26/2010 20	0.0098
06/26/2010 21	0.0101 .
06/26/2010 22	0.0104
06/26/2010 23	0.0104
06/27/2010 00	0.0104
06/27/2010 01	0.0108
06/27/2010 02	0.0109
06/27/2010 03	0.0067
06/27/2010 04	0.0055
06/27/2010 05	0.0053
06/27/2010 06	0.0187
06/27/2010 07	0.0103
06/27/2010 08	0.0097
06/27/2010 09	0.0123
06/27/2010 10	0.0173
06/27/2010 11	0.0170
06/27/2010 12	0.0157

06/28/2010 20	0.0100
06/28/2010 21	0.0093
06/28/2010 22	0.0072
06/28/2010 23	0.0083
06/29/2010 00	0.0068
06/29/2010 01	0.0059
06/29/2010 02	0.0056
06/29/2010 03	0.0059
06/29/2010 04	0.0059
06/29/2010 05	0.0059
06/29/2010 06	0.0239
06/29/2010 07	0.0218
06/29/2010 08	0.0215
06/29/2010 09	0.0190
06/29/2010 10	0.0169
06/29/2010 11	0.0149
06/29/2010 12	0.0134
06/29/2010 13	0.0140
06/29/2010 14	0.0140
06/29/2010 15	0.0135
06/29/2010 16	0.0126
06/29/2010 17	0.0129
06/29/2010 18	0.0132
06/29/2010 19	0.0125
06/29/2010 20	0.0125
06/29/2010 21	0.0120
06/29/2010 22	0.0102
06/29/2010 23	0.0084
06/30/2010 00	0.0075
06/30/2010 01	0.0070
06/30/2010 02	0.0076

Date/Hour	BOILER03 SO2#/M30 Value
05/25/2010 00	0.0012
05/25/2010 01	0.0010
05/25/2010 02	0.0014
05/25/2010 03	0.0014
05/25/2010 04	0.0010
05/25/2010 05	0.0011
05/25/2010 06	0.0417
05/25/2010 07	0.0022
05/25/2010 08	0.0017
05/25/2010 09	0.0017
05/25/2010 10	0.0017
05/25/2010 11	0.0017
05/25/2010 12	0.0014
05/25/2010 13	0.0014
05/25/2010 14	0.0014
05/25/2010 15	0.0014
05/25/2010 16	0.0017
05/25/2010 17	0.0014
05/25/2010 18	0.0014
05/25/2010 19	0.0014
05/25/2010 20	0.0014
05/25/2010 21	0.0014
05/25/2010 22	0.0014
05/25/2010 23	0.0014
05/26/2010 00	0.0012
05/26/2010 01	0.0010
05/26/2010 02	0.0010
05/26/2010 03	0.0010
05/26/2010 04	0.0010
05/26/2010 05	0.0011

05/27/2010 13	0,0022
05/27/2010 14	0.0019
05/27/2010 15	0.0015
05/27/2010 16	0.0015
05/27/2010 17	0.0015
05/27/2010 18	0.0015
05/27/2010 19	0.0011
05/27/2010 20	0.0011
05/27/2010 21	0.0011
05/27/2010 22	0.0010
05/27/2010 23	0.0014
05/28/2010 00	0.0014
05/28/2010 01	0.0010
05/28/2010 02	0.0010
05/28/2010 03	0.0010
05/28/2010 04	0.0010
05/28/2010 05	0.0013
05/28/2010 06	0.0143
05/28/2010 07	0.0025
05/28/2010 08	0.0019
05/28/2010 09	0.0016
05/28/2010 10	0.0017
05/28/2010 11	0.0017
05/28/2010 12	0.0017
05/28/2010 13	0.0017
05/28/2010 14	0.0017
05/28/2010 15	0.0017
05/28/2010 16	0.0017
05/28/2010 17	0.0017
05/28/2010 18	0.0017
05/28/2010 19	0.0016

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05/30/2010 03	0.0011
05/30/2010 04	0.0011
05/30/2010 05	0.0018
05/30/2010 06	0.0156
05/30/2010 07	0.0023
05/30/2010 08	0.0014
05/30/2010 09	0.0016
05/30/2010 10	0.0017
05/30/2010 11	0.0017
05/30/2010 12	0.0017
05/30/2010 13	0.0017
05/30/2010 14	0.0017
05/30/2010 15	0.0014
05/30/2010 16	0.0014
05/30/2010 17	0.0017
05/30/2010 18	0.0014
05/30/2010 19	0.0014
05/30/2010 20	0.0014
05/30/2010 21	0.0014
05/30/2010 22	0.0014
05/30/2010 23	0.0011
05/31/2010 00	0.0012
05/31/2010 01	0.0009
05/31/2010 02	0.0010
05/31/2010 03	0.0010
05/31/2010 04	0.0010
05/31/2010 05	0.0014
05/31/2010 06	0.0142
05/31/2010 07	0.0023
05/31/2010 08	0.0014
05/31/2010 09	0.0014

06/01/2010 17	0.0019
06/01/2010 18	0.0020
06/01/2010 19	0.0017
06/01/2010 20	0.0014
06/01/2010 21	0.0012
06/01/2010 22	0.0010
06/01/2010 23	0.0010
06/02/2010 00	0.0010
06/02/2010 01	0.0010
06/02/2010 02	0.0010
06/02/2010 03	0.0010
06/02/2010 04	0.0010
06/02/2010 05	0.0009
06/02/2010 06	0.0185
06/02/2010 07	0.0096
06/02/2010 08	0.0035
06/02/2010 09	0.0075
06/02/2010 10	0.0060
06/02/2010 11	0.0050
06/02/2010 12	0.0013
06/02/2010 13	0.0013
06/02/2010 14	0.0012
06/02/2010 15	0.0014
06/02/2010 16	0.0016
06/02/2010 17	0.0017
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